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Simon et al.

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(54) **AUTOMATIC WEATHER MONITORING  
AND ADAPTIVE TRANSMITTING SYSTEM**

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(\*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

This patent is subject to a terminal disclaimer.

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**Related U.S. Application Data**

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(51) Int. Cl.<sup>7</sup> ..... **G08G 5/00**

(52) U.S. Cl. .... **340/949; 73/178 T; 340/945; 340/968; 455/63; 455/431**

(58) Field of Search ..... **340/945, 947, 340/948, 949, 952, 502, 313, 968, 963, 905; 73/178 T, 170.01, 170.02, 170.05, 170.06, 170.16; 701/200; 455/63, 431**

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(57) **ABSTRACT**

A method for automatically providing weather advisories for an airport to pilots comprises monitoring weather conditions at the airport and then generating weather advisories in response to these weather conditions. The broadcast traffic on a common traffic advisory channel is also simultaneously monitored and then menus providing for selectable weather advisories and radio check options are broadcast to the pilots. The weather advisories or radio check can then be selected by the pilot by clicks of their transmit button. The time spacing between the menus is adaptively changed in response to traffic on the common traffic advisory frequency. Also, the length of the weather advisories is also changed in response to this traffic. The radio check option is provided automatically by first confirming selection of the radio check option and then allowing the broadcaster to broadcast a short message which is recorded by the system and then rebroadcast.

**32 Claims, 5 Drawing Sheets**

